

PAGE	5		Me	HIATHIA	ııı		TYTEST		
000520	100403	Α	89.	TRDA	LDXI	HDG2	BA=?	0 1	00089
000521	002000	A	90		CALL*	DUMG		0 1	00090
000524	100403 002000 100416	A A	91	TIDA	CALL*	IDCT	INPUT DA END WITH PERIOD	0 1	00
000526		A	92		JMP	TSSR	RESET SS3	0 1	00092
000530		A	93		JMP	TRDA	BACKSLASH	0 1	00093
000532	001000	A	94		JMP	*+2		0 1	00094
	006030 002644		95 96	* HORMA	AL RETURI LDXI	N FROM INPG STTY			00095 00096
000536 000537	055000 006010	A	97 98	TATT	STA LDAI	0 · 1 0 2 0 7	STORE DA RING BELL ON APPROPRIATE TTY		00097
	002000	A	99		CALL	DUTA	AND INITIALIZE APPROPRIATE TTY	0 1	00099
000543	002613	A	100		LBAI	0224	PNCH OFF	0 1	00100
000544	002000	A A	101		CALL	DUTA		0.1	00101
000546 000547 000550	006010	A A	102		LDAI	0553	RDR OFF	0 1	00102
	002000	A A	103		CALL	DUTA		0.1	00103
000553	006010	A A	104		EDAI	0201	PRINT ENABLE	0.1	00104
000555		A	105		CALL	DUTA		0 1	00105
	002000	A A	106		CALL	DUTC	CR/LF	0 1	00106
000561 00 05 62	012644	A	107 108		LDA DRAI	\$TTY 0102 500			00107 00108
000563 000564 000565	050565	A A A	109		STA CIA	*+1 0	CLEAR TTY INPUT BUFFER		00109
000566		A A		TRID	LDXI	нрез	TEST ID=?	őí	
000570 000571		A A	112		CALL	מדטם		0 1	00112
000572	002000	A A	113	TIID	CALL	INPE	INPUT ID END WITH PERIOD	0 1	00113
000574	001000	A A	114		JMP	TRSS	RESET SS3	0 1	00114
000576 000577	001000 000566	A A	115		JMP	TRID	BACKSLASH	0 1	00115
000600 000601		A A	116		JMP	TRID	BACKARROW	0.1	0
		A A A	117 118 119	*NORMAL	RETURN STA CALL	FROM INPE STID INPF	STORE ID		00117 00118 00119
000605	001000		120		JMP	TATT	EXIT TO KEYBOARD CONTROL PROGRAM	0.1	00120
000607	001000		121		JMP	TRID	BACKSLASH	0 i	00121
000611	001000	A	122		JMP	TRID	BACKARROW	0 1	00122
000613	001000	Α	123		JMP	*+2	• · · · · · · · · · · · · · · · · · · ·	0.1	00123
000615	002000	Ä	124 125	* NORMA	AL R eturi Call	Y FROM INPF. OUTC			00124 00125
000617	011010	A	126 127		LDA SUB	STID KC	RESTORE ID KEYBD CHAR		00126 00127
	001010		128		JAZ	TKCT			00128
000624 000625		A A	129 130 131		LDA SUB Jaz	STID KE TKET	KEYBD ECHO	0.1	00129 00130 00131
000627	141004	A	132 133 134		LDA SUB JAZ	STID PR TPRT	PNCH/RDR	0.1	00132 00133 00134
	001445		135		LDA	STID			00135
000634 000635 000636	141005 001010 001326	A A A	136 137		SUB JAZ	PS TPST	PRINT SUPPRESSION	0 1	00136
000641	141006	A	138 139 140		LDA SUB JAZ	STID PT TPTT	PRINTER	0.1	00138 00139 00140
000642 000643 000644	011010	A A A	141 142		L B A S U B	STID	RDR		00141 00142
000645 000646 000647	001010 002120	A A A	143		JAZ LDXI	TRTT		0 1	00143
000650	000743	À	145		CALL	HDG4	INVALID TEST ID		00144
	003243		as I had		on I I law her	out of 1 day		V.1	Λ

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			. Mi	NIATNIA	III		TY	TEST					PA	GE 3
000653			146		JMP	TRID							0 1	00146
000654 000655	006030		147	TSSR	LDXI	HDG5	R	ESET SS	3				0 1	00147
	002000	A A	148		CALL*	DUM6							0.1	00148
0660		A A	149		JS23	*							0 1	00149
000662		A A	150		JMP	TRDA							0 1	00150
000664		A A	151	TRSS	LDXI	HDG5	R	ESET S	23				0 1	00151
000666 000667		A A	152		CALL*	DUMG							0 1	00152
000670 000671		A	153		JSS3	*							0 1	00153
000672 000673		Ĥ	154		JMP	TRID								00154
	000566	A	155	*	MESSAGE									00155
000676 000677 000701 000702 000703 000704 000705 000705	142640 152305 146305 152331 150305 120305 120224 142723 152240 144723			HDG1	DATA		THE TE	LETYPE	TEST IS LO	ADED",(106612,	0		00156
000711	147701	A A												
000712	142240	A A												
000715 000716 000717 000720 000721	0000000 106612 152305 146305 152331	Α	157	HDG2	DATA	0106612,	*TELETY	PE DA='	· s 0				0 1	00157
000723	120304	A A												
000725 000726 000727 000730	000000 106612 152324 154640	A A A A	158	ндбз	DATA .	0106612,	•11Y TE	ST IDE	YTIFIER = * , (0			0 1	00158
_000732	151724	A												
0734	142305	A A												
000736	144706	A A												
000740	151240	A A												
000742 000743 000744 000745	000000 106612 144716 153301	A A A A A A A A A A	159	HDG4	DATA	0106612,	'INVALI	D TEST	IDENTIFIER	.01066	512,0		0 1	00159
000747	142240	Ä												
000751	151724	A A												
000753 000754	142305	A A												
000755 000756 000757 000760	144706 144705 151240 106612	A A A												
000762 000763 000764 000765	106612 150314 142701 151705	А А А	160	HDG5	DATA	0106612,	*PLEASE	RESET	SENSE SWITE	сн з , о			0 1	00160
000767 000770 000771	142723 142724 120323	A A A A												
000773 000774 000775 000776	151705 120323 153711 152303	A A A A						•						
001000	131640	A A												
001002 001003 001004 001005	145703 145705 150322 150323 150324	А А А	161 162 163 164 165 166	KC KE	DATA TA DATA DATA DATA DATA DATA	BLE 0145703 0145705 0150322 0150323 0150324							0 1 0 1 0 1 0 1 0 1	00161 00162 00163 00164 00165 00166
1007	151324	A	167	RT	DATA	0151324							0 1	00167

				· .		1				
PAGE	4		Mi	MIATHIA	III		*·	TYTEST		
001010	000000	A		GIT2	DATA	0			01	00168
			170 171	**	TELETYP	E KEYBOARI	D CHAI	RACTER TEST	01	
	002000 003210	A A		TKC T	CALL	DUTC			ŏī	00172
	006030 001126	A A	173		T D X I	TKK1		PRINT L/C CHAR LINE	0 1	00
001015 001016	003243		174		CALL	מדטם				00174
001020	006030 001126	A	175		LDXI	TKK1		FIRST L/C CHAR		00175
	006020 000052 002000	A	176	ткса	LDBI	42		#L/C CHAR		00176
001023	001071	A A A		TKC3	LDA	TCS1 TKW2		INPUT CHAR SUBR ERROR CHAR		00177
001026	001000	A A	179	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	JMP	*+3		ERROR OTHER		00179
001030 001031	011231 002000	A	180 181		LDA CALL	TKW1 DUTA		VALID CHAR PRINT CHAR		00180
001033		A	182		IXR					00182
001034 001035 001036		A A	183 184		. DBR JBZ	TKC4		LAST CHAR INPUT?		00183 00184
001037		A A A	185		JMP	TKCS		NOT LAST	0 1	00185
001041 001042	002000	A A	186	TKC4	CALL	autc			0 1	00186
001043 001044	001202	A A	187		LDXI	TKK2		PRINT U/C CHAR LINE	0 1	00187
001045	003243	A	188		CALL	OUTD .				00188
001047	001202	A.	189		LDXI	TKK2		FIRST U/C CHAR		00189
001051 001052 001053	000025	A A A	190	TKC5	LDBI	21 TCS1		# U/C CHAR INPUT CHAR SUBR		00190
001054	001071	Ä			LDA	TKW2		ERROR CHAR		00192
001056 001057	001000	A	193		JMP	*+3				00193
001060 001061	002000	A	194 195		LDA CALL	TKW1 DUTA		VALID CHAR PRINT CHAR		00194 00195
001062		A A A	196 197		IXR DBR					00196
001065	001020	A A	198		JBZ	TKCT		LAST CHAR INPUT?		00197
001067		А	199		JMP	TKC5		NOT LAST	0 1	00
	000000	Α		* TCS1	INPUT C	HARACTER S	SUBRO	JTINE	0.1	00200
001073		A	503		LDA STA	0 ; 1 TKW1		SAVE EXPECTED CHAR	0.1	00503
001074 001075 001076	002610	A A A	204 205		JMP	INFA TATT		INPUT CHARACTER EXIT TO KEYBOARD CONTROL PROGRAM		00204
	000537	Ä	206	* NORM		N FROM INF	⊃a	ENTITE RETURNS CONTROL PROGRAM		00205
001101	006140 000240	Α	207		SUBI	0240			0 1	00207
001103	001010	A	208					SPACE ?		00208
001105	006120 000240 131231	A	209		ADDI ERA	0240 TKW1		NOT SPACE - RESTORE CHAR		00209
001107	001010	Α	511		JAZ	CS01		VALID CHAR ?		00210
001111	131231 051232	A	212 213		ERA Sta	TKW1 TKW2		INVALID - RESTORE CHAR SAVE INVALID CHAR		00212
001114	006010 000207	A	214		LDAI	0207			0 1	00214
001116	002000	A	215		CALL	OUTA		RING BELL - OPERATER ATTN!		00215
001120	001000 001074 041071	A	216	CS01		TCS1+3		RE-TYPE CHAR (OR SPACE BAR)		00215
001122	041071	A	218 219		INR INR	TCSI TCSI			0 1	00218
001124	001000 101071	A	220		JMP*	TCS1				00550
	000261		221 222	* TKK1	DATA TA DATA		2,0263	3,0264,0265,0266,0267,0270,0271,0260		00221
001130	000262 000263 000264	A								
001132	000265	A								
001134 001135	000267 000270	A A								
001137	000271	Α	200		DATA	0070.000	F 000			
001140	000272	Н	೭೭૩		THIH	02/2:025	3,032	1,0327,0305,0322,0324,0331,0325,0311	U I	

•	001141 000255 A 001142 000321 A 001143 000327 A 01144 000305 A 1145 000322 A 1146 000324 A 001147 000331 A										
	001147 001150 001151		4 4 4 21 4	24		DATA	0317,0320,030	1,0323,0304,0306,0307,03	10,0312,0313	0 1	00224
	001156 001157 001160 001161 001162	000304 F 000306 F 000307 F 000310 F 000312 F	4 4 4								
		000313 F 000314 F 000273 F 000332 F 000330 F	1 21 1 1 1	25		DATA	0314,0273,033	2,0330,0303,0326,0302,03	16,0315,0254	0 1	00225
	001173 001174 001175	000326 F 000302 F 000316 F 000315 F 000254 F	ને ને ને ને	26		DATA	0256,0257,010			0.1	00226
	001177 001177 001200	000257 A	à à	26		рити	0530,0537,010	0012,0		0.1	00220
	001202 001203	0000000 F 000241 F 000242 F) 2;	27	TKK2	DATA	0241,0242,024	3,0244,0245,0246,0247,02	50,0251,0252	0 1	00227
		000244 A	ا ا								
	001210	000246 A 000247 A 000250 A 000251 A	à à								
	001213 001214	000252 A) } 2:	28		DATA	0275,0337,030	0,0333,0334,0253,0336,03	35,0274,0276	0 1	00228
	001216 001217	000300 A 000333 A 000334 A)	ź							
	D1221 1222 1223	000253 A	ને ને								
	001224 001225 001226 001227	000274 F 000276 F 000277 F 106612 F	0274 A 0276 A 0277 A 229 6612 A	29		DATA	0277,0106612,	0		0 1	00889
	001230 001231 001232	000000 A	2:	31	TKW1	BSS BSS	1 1	TEMP STOR INPUT CHAR TEMP STOR INVALID CHAR		0.1	00230
				32 33	**	KEYBOAR:	D ECHO TEST			0.1	00232
	001222	006030 (34 35	* TKET	Lnyt	unce	NABU ECHU LEGI		0 1 0 1	00234 00235
	001234 001235	001245 f		36		CALL	מדטם			0 1	00236
	001236 001237	003243 A		37		CALL	INPB	INPUT & PRINT CHAR		0 1	00237
	001240 001241	002656 A		38		JMP	TATT	EXIT TO KEYBOARD CONTROL	L PROGRAM	0 1	00238
	001242	000537 A	2:		* NORM	AL RETUR	N FROM IMPB			0 1	00239
	001244	001000 A 001237 A 106612 A) } 2.	40 41	HDG6	JMP Data	*-4 0106612, KEYB	DARD ECHO TEST',0106612,	3		00240
	001247 001250	145705 F 154702 F 147701 F	ने ने								
	001252 001253	151304 A 120305 A 141710 A	તે ને								
	001255	147640 A 152305 A 151724 A	ት ት			•					
		106612 A	4								
			2.	42 43	ж	PRINTER	TEST			0.1	00242
		006010 6	1 2	44 45	* TP TT	LDAI	0237	INITIALIZE			00244
	001263	000237 A 051325 A 006030 A	3 2	46 47	TPT1	STA	TPW1 72	FIRST CHAR (-1) INIT FOR NEW LINE			00246 00247
	<u>0</u> 01266	002000	10 A 00 A 24	48		CALL	DUTC	CR/LF		0 1	00248
		003210 A		49		LDA	TPW1	FIRST CHAR OF PREVIOUS	LINE	0 1	00249
											and the second second

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PAGE 6	MAINTAIN	III		TYTEST		
001271 002000 A 001272 001307 A	250	CALL	TPT3	SUBR	0.1	00250
001273 051325 A 001274 002000 A	251 252 TP T2	STA CALL	TPW1 DUTA	FIRST CHAR OF NEW LINE PRINT CHAR		00251
001275 002613 A 001276 001400 A 001277 000537 A	253	1223	TATT	EXIT TO KEYBOARD CONTROL PROGRAM	0 1	00253
001300 002000 A 001301 001307 A	254	CALL	TPT3	NEXT CHAR	0 1	00
001302 005344 A 001303 001040 A	255 256	DXR JXZ	TPT1	END OF LINE ?		00255
001304 001264 A 001305 001000 A	257	JMP	тете	NO	0 1	00257
001306 001274 A	258 * 259 TP T3	INCREME ENTR	NT CHARACTER	SUBROUTIME		00258
001310 005111 A 001311 006130 A	260	IAR ERAI	0340		0 1	00259 00260 00261
001312 000340 A 001313 001010 A	262	JAZ	*+6	LAST CHAR OF SET ?		00565
001314 001321 A 001315 006130 A	263	ERAI	0340	NO - RESTORE CHAR	0 1	00263
001316 000340 A 001317 001000 A 001320 101307 A	264	#9ML	ТРТЗ		0 1	00264
001320 101307 A 001321 006010 A 001322 000240 A	265	LDAI	0240	SET TO FIRST CHAR OF SET	0 1	00265
001323 001000 A 001324 101307 A	266	#9ML	TPT3	RETURN	0 1	00266
001325	267 TPW1 268 *	BSS	1	HORK AREA		00267 00268
	269 * 270 *		UPPRESSION TE		0 1	00270
*	271 * IF 272 * TH 273 *	E MESSAG	EURES OCCUR *	'S WILL APPEAR WITHIN	0 1	
.001326:006030 A: 001327 001345 A	274 TP ST	LDXI	(PSTBL)	TABLE POINTER	0 1 0 1	
001330 015000 A 001331 002000 A 001332 002613 A	275 PS 20 276	LDA CALL	0 s 1 DUTA	PICK A PAIR		00275 00276
001333 004350 A 001334 002000 A	2 7 7 2 7 8	LSRA Call	S OUTA			00277 00278
001335 002613 A 001336 001400 A 001337 000537 A	279	J883	TATT	EXIT TO KEYBOARD CONTROL PROGRAM	0 1	00279
001337 000537 A 001340 005144 A 001341 001010 A	280 281	IXR JAZ	TPST			00280 00281
001342 001326 A 001343 001000 A	282	JMP	P\$20			00282
001344 001330 A	283 PSTBL	DATA	CRLF: 0102301	STAR,0102323,STAR	0 1	0.0
001346 102301 A 001347 100452 A 001350 102323 A						
001351 100452 A 001352 102322 A	284	DATA	0102322,STAR	.0102240,STAR,0102324,STAR,0102324	0 1	00284
001353 100452 A 001354 102240 A						
001355 100452 A 001356 102324 A 001357 100452 A						
001360 102324 A 001361 100452 A	285	DATA	STAR;0102331:	,STAR,0102240,STAR	0 1	00285
001362 102331 A 001363 100452 A						
001364 102240 A 001365 100452 A 001366 102320 A	286	DATA	0.10.0000 0.700	,0102322,STAR,0102311	2.4	
001367 100452 A 001370 102322 A	200	пнін	0102320731HR	,0102322,3(HK,0102311	01	00286
001371 100452 A 001372 102311 A						
001373 100452 A 001374 102316 A	287	DATA	STAR,0102316:	,STAR,01 0 2324,STAR	0 1	00287
001375 100452 A 001376 102324 A						
001377 100452 A 001400 102240 A 001401 100452 A	288	DATA	0102240,STAR	,0102323,STAR,01023 2 5	0 1	00588
001402 102323 A 001403 100452 A					•	
001404 102325 A 001405 100452 A	289	DATA	STAR,0102320	STAR,0102320,STAR	0 1	00289
001406 102320 A -001407 100452 A						
001410 102320 A 001411 100452 A 001412 102322 A	290	DATA	0102322.5709	,0102305,STAR,0102323	n +	00290
001413 100452 A 001414 102305 A		±,∈	TIO ECEL O I AIN		0.1	0,0 2.70
001415 100452 A 001416 102323 A						
001417 100452 A 001420 102323 A	291	DATA	SIHK,0102323	STAR,0102311,STAR	01	00291

		MAINTAIN	TTT		TYTEST	PAC	GE 7
001421	100452 A		***				
001423 001423 01424 01425 01426	100452 A 102317 A 100452 A 102316 A	292	ВАТА	0102317,STAR,	0102316,STAR,0102240	0 1	00292
001427 001430 001431 001433 001433	102240 A 100452 A 102324 A	293	DATA	STAR,0102324,	STAR,0102305,STAR	0 1	00293
001434 0 01 435	102305 A 100452 A						
001436 001437 001440	100452 A	294	DATA	0102323,STAR,	0102324,STAR	01	00294
001441 001448 001443	100452 A : 102256 A	295	DATA	PERIOD+EOTX.S	TAR,0	0 1	00295
	100452 A 102000 A 105215 A 000256 A	296 STAR 297 EOTX 298 CRLF 299 PERIOD 300 *	EQU EQU EQU	0100452 0102000 0105215 0256	* AND SOM	0 1 0 1 0 1	00296 00297 00298 00299 00300
		301 * 302 *	PUNCH /	READER TEST		0.1	00301 00302
001446		303 TPRT	LDXI	HDG7	33 DR 35 TTY ?	0 1	00303
001447	003243 A	304 305	CALL	מדד	INPUT TTY TYPE # END WITH PERIOD		00304
001451 001452 001453	. 003143 A	306	JMP	INPG	EXIT TO KEYBOARD CONTROL PROGRAM		00305
001454	000537 A	307	JMP	*+2	s		00307
001456 001457	001457 A 001000 A	308	JMP	TPRT	BACKSLASH	0 1	00308
001460				N FROM INPG			00309
001463		310	ANAI ERAI	04			00310
001464	000004 A	312	JAZ	*+4			00312
001466 001467	001471 A 006110 A	313	ORAI	0377	33	0 1	00313
001470	006110 A	314	ORAI	0224	35	0.1	00314
01473	001474 002000 A 001475 003210 A 001476 006010 A 001477 003330 A 001500 052561 A 001501 002000 A	315 316	STA CALL	TYPE DUTC			00315
001475		317	LDAI	(TEER)	INIT ERR TBL PTR		00317
001500 001501 001502		318 319 PR 01	STA CALL	PRW4 TTYC,0221	RDR ON		00318 00319
001505	002000 A	320	CALL	TTYC,0222	PUNCH ON	0 1	00350
	006020 A	321	LDBI	100	PUNCH 100 BLANKS	0 1	00321
001511	005001 A 002000 A	3 22 323 pro2	TZA CALL	DUTA	PUNCH 10" LEADER		00353 00355
001514	: 002613 A : 005322 A : 001020 A	324 325	DBR JBZ	PR03			00324
001516 001517	001521 A 001000 A	326	JMP	PR02			00326
001520	001512 A	327 * 328 * 329 *****	DPERATO		LEADER, AND SET READER CONTROL TO RUN POSI	TI01 **01	00329
	002000 A	330 * 331 PR 03	CALL	INPA	WAIT FOR OPERATOR TO INSERT LDR		00330
001523	: 002610 A : 001000 A : 002036 A	332	JMP	PRND	SSS EXIT	0 1	00332
001525	; 002000 A ; 002551 A	333	CALL	TTYC,0223	TURN RDR OFF	0 1	00333
001527 001530 001531 001533	005001 A 052557 A 052560 A 052562 A	334 335 336 337	TZA STA STA STA	PRW2 PRW3 PRW5	PRW2 =0 #CYC PRW3 =0 #ERR PRW5 =0 #PUNCH ON/OFF ERRORS	0 1 0 1 0 1	00334 00335 00336 00337
001535	; 006020 A ; 000144 A ; 002000 A	338	LDBI Call	100 Outa	PUNCH LEADER PUNCH		00338
001537		340	JSS3	PRND	SS3 EXIT		00340
01548	002036 A 005322 A	341	DBR	***	DECR CTR		00341
01548		341 342	DBR JBZ	*+4	DECR CTR LAST CHAR ?		0034; 0034;

MAINTAIN 11			.)	1 . 4 .				
	PAĞE	8	MAINTA	IN III		TYTEST		
	001545	001000 A	343	JMP	* -7	NO	0 1	00343
	001547	006010 A	344	LDAI	0377	PUNCH RUBOUT	0 1	00344
	001551	002000 A	345	CALL	DUTA		0 1	0005
0.00 0.00	001553 001554	005001 A 001000 A			PR05			
	001556 001557 001560	005122 A 005021 A 002000 A	349	TBA	TPS4	SAVE IT	0 1	00349
	001562	001010 A	351	JAZ	*-4	YES	0 1	00351
0.0 0.0	001564 001565	005021 A 006150 A			0377			
011572 002000 A 556 PR05 CALL DUTA PUNCH CHAR 01 00355 011575 010100 A 3578 JRNP PR04 CONTINUE 01 00355 011575 010100 A 3588 JRNP PR04 CONTINUE 01 00355 011575 010100 A 3588 JRNP PR04 CONTINUE 01 00355 011575 010100 A 3588 JRNP PR04 CONTINUE 01 00355 011575 010100 A 3588 JRNP PR04 CONTINUE 01 00350 011575 010100 A 3588 JRNP PR04 CONTINUE 01 00350 011575 010100 A 3588 JRNP PR04 CONTINUE 01 00350 011575 010100 A 3588 JRNP PR04 CONTINUE 01 00350 011575 010100 A 3588 JRNP PR04 CONTINUE 01 00350 011575 010100 A 3588 JRNP PR04 CONTINUE 01 00350 011575 010100 A 3588 JRNP PR04 CONTINUE 01 00350 011575 010100 A 3588 JRNP PR05 RND	001567 001570	005012 A 001020 A			PR06			
011974 001906 A	001572	0002000 A	356 PR 05	CALL	DUTA	PUNCH CHAR	0 1	00356
001807 001800 A 358	001574	001400 A	357	5 22C	PRND	SS3 EXIT	0 1	00357
	001576	001000 A	358	JMP	PR04	CONTINUE	0 1	00358
001650 000201 A 360	001600	000200 A	359 PR06	CALL	TTYC,0224	PUNCH OFF	0 1	00359
01 02 02 03 03 03 03 03 03	001602 001603 001604	000224 A 002000 A 002551 A	360	CALL	TTYC,0377	TRY TO PUNCH RUBOUT	0 1	00360
001612 005001	001606 001607	002000 A 002551 A	361	CALL	TTYC,0222	PUNCH ON	0 1	00361
001615 002613 A 364 CALL UTTA PUNCH COLOR OLOR OLOR OLOR OLOR OLOR OLOR OLO	001611	005001 A 006020 A			100	PUNCH LEADER		
001615 001400 A 365 JSS3 PRND SS3 EXIT 01 00365 001617 002826 A 366 JBR JSS3 PRND SS3 EXIT 01 00366 001622 001625 A 368 JMP *-7 ND 01 00367 001625 001625 A 368 JMP *-7 ND 01 00367 001625 A 369 JMP *-7 ND 01 00367 001626 A 369 JMP *	001614	0002000 A	364	CALL	DUTA	PUNCH	0 1	00364
001621 001820 a 366	001616	001400 A	365	1223	PRND	ZZZ EXIT	0 1	00365
001623 001000 A 368 JMP *-7 NO 00369 001624 OD 1614 A 369 CALL TTYC.0224 TURN PUNCH OFF 01 00369 001624 002624 A 369 CALL TTYC.0221 TURN RDR ON LOUKING FOR RUBOUT 01 00370 001631 002651 A 001632 002621 A 00	001620 001621	005322 A 001020 A			* + 4	DECR CTR		
001625 002000 A 369 CALL TTYC.0224 TURN PUNCH OFF 01 00369 001626 002551 A 001627 000224 A 001627 A 001627 000224 A 001624	001623	001000 A	368	JMP	*-7	ND	0 1	00368
001637 000201 A 370 CALL TTYC.0221 TURH RDR ON LODKING FOR RUBOUT 01 00370 001632 00221 A 371 PR07 CALL INPA INPUT CHAR 0N LODKING FOR RUBOUT 01 00371 001632 00221 A 371 PR07 CALL INPA INPUT CHAR 0N LODKING FOR RUBOUT 01 00372 001632 002010 A 372 JMP PRND SS3 EXIT 01 00372 001632 002036 A 373 ERAI 0377 A = 0377 01 00373 001640 000377 A 374 JAZ *+4 YES 01 00377 A 001640 000377 A 374 JAZ *+4 YES 01 00377 A 001640 000377 A 374 JAZ *+4 YES 01 00377 A 001640 000377 A 374 JAZ *+4 YES 01 00377 A 001640 000377 A 374 JAZ *+4 YES 01 00377 A 001640 000377 A 374 JAZ *+4 YES 01 00377 A 001640 000377 A 374 JAZ *+4 YES 01 00377 A 001640 000377 A 377 PR08 CALL INPA INPUT A CHARACTER 01 00377 A 001645 A 377 PR08 CALL INPA INPUT A CHARACTER 01 00377 A 001645 A 377 PR08 CALL INPA INPUT A CHARACTER 01 00377 A 001645 A 377 PR08 CALL INPA INPUT A CHARACTER 01 00377 A 001645 A 377 PR08 CALL INPA INPUT A CHARACTER 01 00377 A 001650 A 377 PR08 CALL INPA INPUT A CHARACTER 01 00377 A 001651 002036 A 378 JMP PRND SS3 EXIT 01 00377 A 001651 002036 A 379 JMP PRND SS3 EXIT 01 00377 A 001651 002036 A 383 JMP PRND SS3 EXIT 01 00377 A 001651 002036 A 383 JMP PRND SS3 EXIT 01 00380 A 001657 002036 A 383 CALL INPA INPUT A CHARACTER 01 00380 A 001657 002036 A 383 CALL TTSL ND 01 00380 A 001657 002036 A 383 CALL TTSL ND 01 00380 A 001657 002036 A 383 CALL TTSL ND 01 00380 A 001657 002036 A 383 CALL TTSL ND 01 00380 A 001657 002036 A 383 CALL TTSL ND 01 00380 A 001657 002036 A 383 CALL TTSL ND 01 00380 A 001657 002036 A 383 CALL TTSL DATE ON 01 00380 A 001657 002036 A 383 CALL TTSL DATE ON 01 00380 A 001657 002036 A 383 CALL TTSL DATE ON 01 00380 A 001657 002036 A 383 CALL TTSL DATE ON 01 00380 A 001657 002036 A 383 CALL TTSL DATE ON 01 00380 A 001657 002036 A 383 CALL TTSL DATE ON 01 00380 A 001657 002036 A 383 CALL TTSL DATE ON 01 00380 A 001657 002036 A 383 CALL TTSL DATE ON 01 00380 A 001657 002036 A 383 CALL TTSL DATE ON 01 002036 A 002036 A 383 CALL TTSL DATE ON 01 002036 A 002036 A 383 CALL TTSL DATE ON 01 002036 A 002036 A 383 CALL TTSL DATE	001625	002000 A	369	CALL	TTYC,0224	TURN PUNCH OFF	0 1	00369
001633 002000 A 371 PR07 CALL INPA INPUT CHAR 01 00371 001635 001000 A 372 JMP PRND SS3 EXIT 01 00372 001636 002036 A 373 ERAI 0377 A = 0377 01 00373 01 00373 01 00374 01 00374 01 00374 01 00374 01 00374 01 00374 01 00374 01 00374 01 00374 01 00375 01 003	001627 001630 001631	000224 A 002000 A 002551 A	370	CALL	TTYC,0221	TURN RDR ON +LOOKING FOR RUBOUT	0 1	00370
001635 001000 A 372 JMP PRND SS3 EXIT 01 00372 01637 002036 A 001037 A 0010037 A 00100037 A 0010003 A 375 JMP PR07 NU 010037 A 0010003 A 376 JMP PR08 CALL INPA INPUT A CHARACTER 01 0037 A 0010003 A 377 PR08 CALL INPA INPUT A CHARACTER 01 0037 A 0010003 A 377 PR08 CALL INPA INPUT A CHARACTER 01 0037 A 0010003 A 378 DR08 JMP PRND SS3 EXIT 01 0037 A 0010003 A 378 DR08 JMP PRND SS3 EXIT 01 0037 A 0010003 A 378 DR08 JMP PRND SS3 EXIT 01 0037 A 0010003 A 378 DR08 JMP PRND SS3 EXIT 01 0038 A 001000 A 378 DR08 JMP PRND SS3 EXIT 01 0038 A 001000 A 388 DR08 JMP PRND SS3 EXIT 01 0038 A 001000 A 388 DR08 JMP PRND SS3 EXIT 01 0038 A 001000 A 388 DR08 JMP PRND SS3 EXIT 01 0038 A 001000 A 388 DR08 JMP PRND SS3 EXIT 01 0038 A 001000 A 388 DR08 JMP PRND SS3 EXIT 01 0038 A 001000 A 388 DR08 JMP PRND SS3 EXIT 01 0038 A 001000 A 388 DR08 JMP PRND SS3 EXIT 01 0038 A 001000 A 388 DR08 JMP PRND SS3 EXIT 01 0038 A 001000 A 388 DR08 JMP PRND SS3 EXIT 01 0038 A 001000 A 389 DR08 JMP PRND SS3 EXIT 01 0039 A 001000 A 389 DR08 JMP PRND SS3 EXIT 01 0039 A 001000 A 389 DR08 JMP PRND SS3 EXIT TEST 01 0039 A 001000 A 389 DR08 JMP PRND SS3 EXIT. TEST 01 0039 A 001000 A 389 DR08 JMP PRND SS3 EXIT. TEST 01 0039 A 001000 A 0000 A 0	001633	005000 A	371 PR07	CALL	INPA	INPUT CHAR	0 i	00371
00 00 00 00 00 00 00 0	001635	001000 A	372	JMP	PRND	SS3 EXIT	0 1	00372
001641 001010 A 374	001637	006130 A	373	ERAI	0377	A = 0377	0 1	00373
O16643 O10100 A 375	001641	001010 A	374	JAZ	*+4	YES	0 1	00374
001645 005004 A 376	001643	001000 A	375	JMP	PR07	но	0 1	00375
001647 002610 A	001645	005004 A			INPA			
001652 052556 A 379 STA PRH1 SAVE 01 00379 001653 005041 A 380 TXA	001650	001000 A	378	JMP	PRNB	SS3 EXIT		
001654 132556 A 381	001652	052556 A			PRU1			
001656 001661 A	001654	132556 A	381	ERA		ARE EQUAL	0 1	00381
001661 005144 A 384 IXR INC EXP TO NXT CHAR 01 00384 01062 005041 A 385 TXA 01 00385 001663 002000 A 386 CALL TPS4 CONTROL CHAR ? 01 00386 001664 001767 A 01 001665 001010 A 387 JAZ *-4 YES 01 00387 001666 001661 A 001667 005041 A 388 TXA REMOVE HIGH ORDER 01 00388 01670 006150 A 389 ANAI 0377 BITS 01 00388 01672 005014 A 390 TAX LAST CHAR? 01 00389 01673 001040 A 391 JXZ *+4 YES 01 00391 001673 001040 A 391 JXZ *+4 YES 01 00391 001675 001607 A 392 JMP PR08 NO JUMP TO PR08 01 00392 001675 001646 A 001677 A 001677 A 001677 002000 A 392 JMP PR08 NO JUMP TO PR08 01 00393 001700 002610 A 394 JMP PRND SS3 EXIT. TEST 01 00394 001701 001000 A 394 JMP PRND SS3 EXIT. TEST	001656 001657	001661 A 002000 A						
001663 002000 A 386 CALL TP\$4 CONTROL CHAR? 001664 001767 A 001665 001010 A 387 JAZ *-4 YES 01 00387 001666 001661 A 001667 005041 A 388 TXA REMOVE HIGH ORDER 01 00388 001670 006150 A 389 ANAI 0377 BITS 01 00389 001671 000377 A 001672 005014 A 390 TAX LAST CHAR? 01 00390 001673 001040 A 391 JXZ *+4 YES 01 00391 001674 001677 A 001674 001677 A 001675 001000 A 392 JMP PR08 NO JUMP TO PR08 01 00392 001676 001646 A 001677 002000 A 393 CALL INPA INPUT CHAR FOR PUNCH DN/DFF 01 00393 001700 002610 A 001701 001000 A 394 JMP PRND SS3 EXIT. TEST 01 00394	001661	005144 A				INC EXP TO NXT CHAR	0 1	00384
001665 001010 A 387 JAZ *-4 YES 01 00387 001666 001661 A 01 00387 001667 005041 A 388 TXA REMOVE HIGH ORDER 01 00388 001670 005150 A 389 ANAI 0377 BITS 01 00389 001671 000377 A 01 005014 A 390 TAX LAST CHAR? 01 00390 001672 005014 A 391 JXZ *+4 YES 01 00391 001674 001677 A 01 001677 A 01 001675 001000 A 392 JMP PR08 ND JUMP TO PR08 01 00392 001675 001000 A 393 CALL INPA INPUT CHAR FOR PUNCH DN/DFF 01 00393 001701 002610 A 394 JMP PRND \$\$33 EXIT. TEST 01 00394	001663	002000 A			TPS4	CONTROL CHAR ?		
001667 005041 A 388 TXA REMOVE HIGH ORDER 01 00388 01 00389 01670 006150 A 389 ANAI 0377 BITS 01 00389 01 00389 01 005077 A 001672 005014 A 390 TAX LAST CHAR? 01 00390 01673 001040 A 391 JXZ *+4 YES 01 00391 01675 001000 A 392 JMP PR08 NO JUMP TO PR08 01 00392 001676 001646 A 010677 A 393 CALL INPA INPUT CHAR FOR PUNCH DN/DFF 01 00393 001700 002610 A 394 JMP PRND SS3 EXIT. TEST 01 00394 0016701 001000 A 394 JMP PRND SS3 EXIT. TEST	001665	001010 A	387	JAZ	*- 4	YES	0 1	00387
001672 005014 A 390 TAX LAST CHAR? 01 00390 001673 001040 A 391 JXZ *+4 YES 01 00391 001674 001677 A 010677 A 010677 A 010677 001677 00	001667 001670	005041 A 006150 A			0377	REMOVE HIGH ORDER BITS		
001674 001677 A 001675 001000 A 392 JMP PR08 ND JUMP TO PR08 01 00392 001676 001646 A 001677 002000 A 393 CALL INPA INPUT CHAR FOR PUNCH DN/DFF 01 00393 001700 002610 A 001701 001000 A 394 JMP PRND SS3 EXIT. TEST 01 00394	001672	005014 A			*+4			
001676 001646 A 001677 002000 A 393 CALL INPA INPUT CHAR FOR PUNCH ON/OFF 01 00393 001700 002610 A 001701 001000 A 394 JMP PRND SS3 EXIT. TEST 01 00394	001674	001677 A						
001700 002610 A 001701 001000 A 394 JMP PRND SS3 EXIT. TEST 01 00394	001676	001646 A						
	001700	002610 A						00394

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001703 052556 A 001704 002000 A 001705 002551 A	3 9 5 396	STA PRW1 Call TTYC,0223	SAVE CHAR TURN RDR OFF	01 00395 01 00396
001706 000223 A 01707 012556 A 01710 132066 A 01711 001010 A	3 97 398	LDA PRW1 ERA TYPE	INPUT CHAR =TYPE	01 00397 01 00398
01711 001010 A 001712 001731 A 001713 012066 A	399 400	JAZ PR10	YES	01 00399 01 00400
001713 012066 H 001714 006130 A 001715 000224 A	400 401	LDA TYPE Erai 0224	MOD=35	01 00400
001716 001010 A 001717 001725 A	402	JAZ PR09	YES, PUNCH OFF ERROR	01 00402
001720 012556 A 001721 006130 A	403 404	LDA PRW1 Erai 0224	TRY NEW TYPE MOD 33 (ACTS LIKE 35)	01 00403 01 00404
001722 000224 A 001723 001010 A 001724 001762 A	405	JAZ PR11	YES, DK CHANGE TYPE = 35	01 00405
001725 072556 A 001726 002000 A 001727 002017 A	406 PR 09 407	STX PRW1 CALL TTBL	PUT 0 INTO TBEL	01 00406 01 00407
001730 042562 A 001731 002000 A	408 409 PR 10	INR PRW5 CALL DET	PUNCH DN/OFF CTR INC Print err tbl	01 00408 01 00409
001732 002415 A 001733 001000 A	410	JMP PRND	SS3 EXIT	01 00410
001734 002036 A 001735 006010 A 001736 000377 A	411	LDAI 0377	PUNCH RUBOUT	01 00411
001737 002000 A 001740 002613 A	412	CALL DUTA		01 00412
001741 002000 A 001742 002551 A 001743 000222 A	413	CALL TTYC,0222	TURN PUNCH ON	01 00413
001744 012066 A 001745 006130 A	414 415	LDA TYPE ERAI 0377		01 00414 01 00415
001746 000377 A 001747 001010 A	416	JAZ *+5		01 00416
001750 001754 A 001751 002000 A 001752 002551 A	417	CALL TTYC,0377	PUNCH RUBOUT	01 00417
001753 000377 A 001754 001400 A	418	JSS3 PRND	SS3 EXIT	01 00418
001755 002036 A 001756 005001 A 001757 005002 A	419 420	TZA TZB	JMP TO PUNCH PATTERN (INIT)	01 00419 01 00420
001760 001000 A 001761 001572 A	421	JMP PR05	JMP TO READ ROUTINE	01 00421
001762 006010 A 001763 000224 A	422 PR11	LDAI 0224	CHANGE TYPE = 35	01 00422
01764 052066 A 01765 001000 A 01766 001731 A	4 23 424	STA TYPE JMP PR10		01 00423 01 00424
001767 000000 A	425 * 426 TPS4	CHECK FOR CONTROL (CODE SUBROUTINE CHECK A FOR CONTROL CHAR	01 00425 01 00426
001770 006110 A 001771 000200 A	427	ORAI 0200	A #0 IF YES	01 00427
001772 006140 A 001773 000204 A	428	SUBI 0204		01 00428
001774 006140 A 001775 000010 A 001776 001010 A	429 430	SUBI 010 JAZ* TPS4		01 00429 01 00430
001777 101767 A	401	SUDI : OE		01 00431
002001 000005 A 002002 001010 A	432	JAZ* TPS4		01 00432
002003 101767 A 002004 005311 A 002005 001010 A	433 434	DAR JAZ* TPS4		01 00433 01 00434
002006 101767 A 002007 005311 A 002010 001010 A	435 436	DAR JAZ* TPS4		01 00435 01 00436
002011 101767 A 002012 005311 A 002013 001010 A	437 438	DAR JAZ* TPS4		01 00437 01 00438
002014 101767 A 002015 001000 A	439	JMP* TPS4		01 00439
002016 101767 A 002017 000000 A	440 TTBL	ENTR	X + ACT TO TBER	01 00440
002020 072032 A 002021 005041 A	441 442	STX TTS1+1 TXA LDX PRW4		01 00441 01 00442 01 00443
002022 032561 A 002023 055000 A 002024 012556 A	443 444 445	LDX PRW4 STA 0,1 LDA PRW1		01 00443 01 00444 01 00445
002025 055001 A 002026 005144 A	446 447	STA 1,1		01 00446 01 00447
002027 005144 A 002030 072561 A	448 449	IXR STX PRW4		01 00448 01 00449
002031 006030 A 002032 000000 A 002033 042560 A	450 TTS1	LDXI 0		01 00450 01 00451
002033 042560 A 002034 001000 A 002035 102017 A	451 452	INR PRW3 JMP* TTBL		01 00451
002036 002000 A 002037 003210 A	453 PRNB	CALL	DUTPUT #CYC,#ERR,#PUNCH DN/OFF ERRS	01 00453
02040 002000 A	454	CALL DUTC	CR/LF	01 00454

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PAGE 10	MAINTAIN	III		TYTEST		
002041 003210 A 002042 002000 A 002043 002551 A	455	CALL	TTYC;0201	PRINT ENABLE	0 1	00455
002044 000201 A 002045 012557 A 002046 002000 A	456 457	LDA CALL	PRW2 DUTE	#CYC		00456 00457
002047 003217 A 002050 002000 A	458	CALL	DUTC	CR/LF	01	0
002051 003210 A 002052 012560 A	459	LDA	PRW3	#ERR		00459
002053 002000 A 002054 003217 A 002055 002000 A	460 461	CALL	DUTE	CR/LF		00460
002056 003210 A 002057 012562 A	462	LDA	PRU5	#PUNCH DN/DFF ERRS	0 1	00462
002060 002000 A 002061 003217 A 002062 002000 A	463 464	CALL	DUTE	CR/LF		00463
002062 002000 A 002063 003210 A 002064 001000 A	465	JMP	TATT	EXIT TO KEYBOARD CONTROL PROGRAM		00464
002065 000537 A 002066	466 TYPE	BSS	1	TTY TYPE # STORAGE	0 1	00466
002067 106612 A 002070 152331 A 002071 150305 A	467 HDG7	DATA	-0106612, TYPE	OF TTY (33 DR 35) =",0	01	00467
002071 130303 H 002072 120317 A 002073 143240 A			•			
002074 152324 A 002075 154640 A						
002076 124263 A 002077 131640 A 002100 147722 A						
002101 120263 A 002102 132651 A						
002103 120275 A 002104 000000 A	460 UDEO	2020		40 154050750 007401		
002105 106612 A 002106 106612 A 002107 142730 A	468 HDG8	DATA	0105512,01055	12, EXPECTED ACTUAL, 0	0 1	00468
002110 150305 A 002111 141724 A						
002112 142704 A 002113 120301 A 002114 141724 A						
002115 152701 A 002116 146240 A			* · · · · · · · · · · · · · · · · · · ·			
002117 000000 A	469 *					00469
002120 002000 A	470 * 471 * 472 TRTT	READER CALL	TTYC:0224	INIT TTY PUNCH OFF	0.1	00470 00471 00 47 2
002121 002551 A 002122 000224 A						O
002123 002000 A 002124 002551 A 002125 000204 A	473	CALL	TTYC,0204	* PRINT OFF	0 1	00473
002125 000204 H 002126 002000 A 002127 002551 A	474	CALL	TTYC,0221	* RDR DN	0 1	00474
002130 000221 A	425	TZX	B BUA	X = NXT CHAR EXPECTED		00475
002132 072557 A 002133 072560 A 002134 072562 A	476 477 478	STX STX STX	PRW2 PRW3 PRW5	INIT PWR2 #CYC PRW3 #ERR # RDR OFF ERRORS	0.1	00476 00477 00478
002135 072563 A 002136 006010 A	479 480	STX LDAI	PRW6 (TBER)	# RDR ON ERRORS PRW4 TBL PTR	0 1	00479 00480
002137 003330 A 002140 052561 A 002141 002000 A	481	STA Call	PRW4 INPA	FIND FIRST BLANK		00481
- 006191 006000 H						00482
002142 002610 A	482 TR00 483					00483
002142 002610 A 002143 001000 A 002144 000537 A 002145 001010 A	482 T R06 483 484	JMP JAZ	TATT *+4	EXIT TO KEYBOARD CONTROL PROGRAM	0 1	00483 00484
002142 002610 A 002143 001000 A 002144 000537 A 002145 001010 A 002145 002151 A 002147 001000 A	483	JMP	TATT	EXIT TO KEYBOARD CONTROL PROGRAM	0 1 0 1	
002142 002610 A 002143 001000 A 002144 000537 A 002145 001010 A 002146 002151 A 002147 001000 A 002150 002141 A 002151 002000 A	483 484	JMP JAZ	TATT ₩+4	EXIT TO KEYBOARD CONTROL PROGRAM *	0 1 0 1 0 1	00484
002142 002610 A 002143 001000 A 002144 000537 A 002145 001010 A 002146 002151 A 002150 002141 A 002151 002000 A 002152 002610 A 002153 001000 A 002153 001000 A 002154 002346 A	483 484 485 486 TR01 487	JMP JAZ JMP CALL JMP	TATT *+4 *-6 INPA RTND	EXIT TO KEYBOARD CONTROL PROGRAM * INPUT CHAR \$S3 EXIT	0 1 0 1 0 1 0 1 0 1	00484 00485 00486 00487
002142 002610 A 002143 001000 A 002144 000537 A 002145 001010 A 002147 001000 A 002147 001000 A 002151 002000 A 002152 002610 A 002152 002610 A 002153 001000 A 002154 002346 A 002155 05254 A 002156 005144 A	483 484 485 486 TR01 487 488 489	JMP JAZ JMP CALL JMP STA	TATT *+4 *-6 INPA	EXIT TO KEYBOARD CONTROL PROGRAM * INPUT CHAR	0 1 0 1 0 1 0 1 0 1 0 1	00484 00485 00486 00487 00488 00488
002142 002610 A 002143 0010007 A 002144 000537 A 002145 001010 A 002147 001000 A 002147 001000 A 002150 002141 A 002151 002000 A 002152 002610 A 002153 001000 A 002154 002346 A 002155 052554 A 002156 005144 A 002157 005041 A 002157 005041 A 002161 001767 A	483 484 485 486 TR01 487 488 489 490 491	JMP JAZ JMP CALL JMP STA IXR CALL	TATT *+4 *-6 INPA RIND FRW1 TPS4	EXIT TO KEYBOARD CONTROL PROGRAM * INPUT CHAR SS3 EXIT SAVE IT INC EXPECTED CHAR * IS IT A CONTROL CHAR ?	01 01 01 01 01 01 01 01	00484 00485 00486 00487 00488 00489 00490 00491
002142 002610 A 002143 0010007 A 002144 000537 A 002145 001010 A 002145 001010 A 002145 002151 A 002151 002000 A 002151 002000 A 002152 002610 A 002152 002610 A 002153 001000 A 002155 00264 A 002155 05256 A 002156 005144 A 002157 005041 A 002161 001767 A 002161 001767 A 002161 001767 A 002161 001766 A	483 484 485 486 TR01 487 488 489 490 491	JMP JAZ JMP CALL JMP STA IXR IXA CALL	TATT *+4 *-6 INPA RIND FRW1	EXIT TO KEYBOARD CONTROL PROGRAM * INPUT CHAR SS3 EXIT SAVE IT INC EXPECTED CHAR * IS IT A CONTROL CHAR ? YES	01 01 01 01 01 01 01 01 01	00484 00485 00486 00487 00488 00488 00490 00491
002142 002610 A 002143 001000 A 002144 000537 A 002145 001010 A 002145 001010 A 002145 002151 A 002151 002010 A 002151 00200 A 002152 002610 A 002152 002610 A 002153 001000 A 002153 001000 A 002155 005044 A 002155 05256 A 002156 005044 A 002166 0002000 A 002166 0002000 A	483 484 485 486 TR01 487 488 489 490 491	JMP JAZ JMP CALL JMP STA IXR CALL	TATT *+4 *-6 INPA RIND FRW1 TPS4	EXIT TO KEYBOARD CONTROL PROGRAM * INPUT CHAR SS3 EXIT SAVE IT INC EXPECTED CHAR * IS IT A CONTROL CHAR ?	01 01 01 01 01 01 01 01 01	00484 00485 00486 00487 00488 00489 00490 00491
002142 002610 A 002143 001000 A 002144 000537 A 002144 001010 A 002145 001010 A 002145 002151 A 002151 002000 A 002151 002000 A 002152 002610 A 002153 001000 A 002153 001000 A 002154 002346 A 002155 052556 A 002155 055556 A 002156 005044 A 002157 005041 A 002161 001767 A 002162 001506 A 002163 002156 A 002166 000377 A 002166 000377 A 002166 000377 A 002166 000377 A 002167 005014 A	483 484 485 486 TR01 487 488 489 490 491 492 493	JMP JAZ JMP CALL JMP STAR TXALL JAZ TXA	TATT *+4 *-6 INPA RIND FRW1 TPS4 *-4	EXIT TO KEYBOARD CONTROL PROGRAM * INPUT CHAR SS3 EXIT SAVE IT INC EXPECTED CHAR * IS IT A CONTROL CHAR ? YES NO	01 01 01 01 01 01 01 01 01 01	00484 00485 00486 00487 00488 00489 00491 00491 00492
002142 002610 A 002144 001000 A 002144 000537 A 002145 001010 A 002145 001010 A 002147 001000 A 002150 002141 A 002152 002610 A 002152 002610 A 002154 002346 A 002155 005144 A 002155 005144 A 002156 005144 A 002157 005041 A 002167 005041 A 002168 001010 A 002168 001010 A 002168 001010 A 002168 005041 A 002168 005041 A	483 484 485 486 TR01 487 488 489 490 491 492 493 494	JMP JAZ JMP CALL JMP SIXAAL TXALL JA Z ANAI TAX	TATT *+4 *-6 INPA RIND FRW1 TPS4 *-4	EXIT TO KEYBOARD CONTROL PROGRAM * * INPUT CHAR SS3 EXIT SAVE IT INC EXPECTED CHAR * IS IT A CONTROL CHAR? YES NO REMOVE ANY HIGH ORDER BITS *	01 01 01 01 01 01 01 01 01 01 01	00484 00485 00486 00488 00488 00489 00491 00491 00492 00493 00494

	MAINTAIN	1 III		TYTEST	PAGE 11
002175 002000 A 002176 002017 A	493	CALL	STTBL	NO ENTER ERR INTO TBL	01 00499
002177 001000 A	509	JMP	TR01		01 00500
2201 012556 A 02202 001010 A	501 TR 0 2 502	L DA Jaz	PRW1 **+4	RDR ON/OFF TEST. DID IT READ THE BLANK OK?	01 00501 01 00502
002203 002206 A 0022 04 002000 A	503	CALL	TTBL	ND	01 00503
002205 002017 A	504	LDAI	.0223	TURN RDR OFF	01 00504
002207 000223 A 002210 002000 A	505	CALL	DUTA	*	01 00505
002211 002613 A 002212 006020 A 002213 002403 A	506	FDBI	(TRBF)	B POINTS TO BUFFER	01 00506
002213 002403 H 002214 006030 A 002215 076400 A	50 <i>7</i>	$L\mathtt{D}X\mathtt{I}$	32000		01 00507
002216 012644 A 002217 006110 A 002220 101200 A	508 509	LDA Orai	\$TTY 01012 00	ADJ. TTY DA	01 00508 01 00509
002221 052225 A 002222 006120 A 002223 001300 A	510 511	STA ADDI	TR03 01300		01 00510 01 00511
002224 052235 A 002225 101000 A	512 513 TR 03	STA Sen	TR04 0,TR04	READ REG RDY	01 00512 01 00513
002226 002235 A 002227 002000 A 002230 003301 A	514	CALL	тиит	TIME DUT	01 00514
002230 003301 A 002231 001000 A 002232 002242 A	515	JMP	TR05	EXIT	01 00515
002233 001000 A 002234 002225 A	516	JMP	TROS	LOOP BACK	01 00516
002235 102500 A 002236 056000 A 002237 005122 A 002240 001000 A	517 TR04 518 519 520	CIA STA IBR JMP	0 0,2 TR03	INPUT A CHAR Store Char into BFR Incr BFR PTR Continue input	01 00517 01 00518 01 00519 01 00520
002241 002225 A 002242 005021 A 002243 005140 A	521 TR05 522	TBA Subi	(TRBF+2)	CHECK # FRAMES READ AFTER RDR TURNED OFF	01 00521 01 00522
002244 002405 A 002245 001004 A 002246 002334 A	523	MAL	TR07	LESS THAN 2	01 00523
002247 006140 A 002250 000002 A	524	SUBI	2	□ R	01 00524
002251 001002 A 002252 002334 A	525	JAP	TROZ	MORE THAN 3	01 00525
002253 062274 A 002254 005004 A 02255 006020 A	526 527 528	STB TZX LDBI	TR08+1 (TRBF)	SAVE BFR PTR X =EXP CHAR-1 B =BFR PTR	01 00526 01 00527 01 00528
02257 016000 A 002260 052556 A 002261 005144 A 002262 072264 A	529 TR 06 530 531 532	LDA STA IXR STX	0;2 PRW1 *+2	GET CHAR FROM BFR PUT IT INTO ACT (PRW1) INC EXP CHAR	01 00529 01 00530 01 00531 01 00532
002263 006130 A	533	ERAI	0	ACT = EXP?	01 00533
002265 001010 A 002266 002271 A	534	JAZ	*+4	YES	01 00534
002267 002000 A 002270 002017 A	535	CALL	TTEL	NO.	01 00535
002271 005122 A 002272 005021 A 002273 006140 A 002274 000000 A	536 527 538 TR08	IBR TBO SUBI	0	INC BFR PTR	01 00536 01 00537 01 00538
002275 001010 A 002276 002301 A	539	JAZ	** + 4	YES	01 00539
002277 001000 A 002300 002257 A	540	JMP	TR06	NO CONTRACTOR OF THE CONTRACTO	01 00540
002301 002000 A 00 2 302 002415 A	541	CALL	DET	OUTPUT ERR TBL	01 00541
002303 001000 A 002304 002346 A	542	JMP	RTND	SS3 EXIT	01.00542
002305 006010 A 002306 000221 A 002307 002000 A	543 544	LDAI CALL	0221 DUTA	TURN RDR ON	01 00543 01 00544
002310 002613 A	545	CALL	INPA	INPUT A CHAR	01 00545
002312 002610 A 002313 001000 A	546	JMP	RTND	SS3 EXIT	01 00546
002314 002346 A 002315 005144 A	547	IXR		NEXT CHAR THE EXP?	01 00547
002316 072320 A 002317 006140 A 002320 000000 A	548 549	STX	0 *+5		01 00548 01 00549
002320 000000 H 002321 001010 A 002322 002151 A	550	JAZ	TR01	JMP IF YES	01 00550
002323 042563 A 002324 004251 A	551 552	INR LRLA	PRU6	NO ,INC # RDR ON ERRORS	01 00551 01 00552
002325 005304 A 002326 052556 A 002327 002000 A	553 554 555	DECR STA CALL	04 PRW1 TTBL	PUT EXP=-1,ACT=#FRAMES ERRUR TBL	01 00553 01 00554 01 00555
002330 002017 A 002331 005004 A 2332 001000 A 2333 002141 A	556 557	TZX JMP	TROO	LOOK FOR FIRST BLANK	01 00556 01 00557

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002334 005021 A 002335 006140 A 002336 002402 A	558 TR07 559	TBA SUBI	(TRBF-1)	PUT ERR FRAME # INTO	01 00558 01 00559
002337 004251 A 002340 052556 A 002341 002000 A	560 561 562	LRLA Sta Call	9 PRW1 TTBL	ERROR TABLE TO INDICATE	01 00560 01 00561 01 00562
002342 002017 A 002343 042562 A 002344 001000 A 002345 002253 A	563 564	INR JMP	PRW5 TR06-4	INC # RDR OFF ERRORS RDR ON/OFF ERR	0 1 0 O \$
002346 002000 A	565 RTND	CALL	DUTC	DUTPUT	01 00565
002350 002000 A 002351 002551 A	566	CALL	TTYC,0201	PRINT ENABLE	01 00566
002352 000201 A	567	CALL	DUTC	CR/LF	01 00567
002354 003210 A 002355 012557 A 002356 002000 A	568 569	LDA CALL	PRW2 DUTE	#CYC	01 00568 01 00569
002357 003217 A	570	CALL	ачтс		01 00570
002361 003210 A 002362 012560 A 002363 002000 A	571 572	LDA CALL	PRW3 OUTE	#ERR	01 00571 01 00572
002364 003217 A 002365 002000 A	573	CALL	DUTC	CR/LF	01 00573
002366 003210 A 002367 012562 A 002370 002000 A 002371 003217 A	574 575	LDA CALL	PRW5 DUTE	# PUNCH DN/DFF OR RDR OFF ERRORS	01 00574 01 00575
002372 002000 A	576	CALL	DUTC.	CR/LF	01 00576
002373 003210 A 002374 012563 A 002375 002000 A 002376 003217 A	5 <i>77</i> 578	LDA Call	PRM6 OUTE	O OR RDR ON ERRORS	01 00577 01 00578
002377 002000 A 002400 003210 A	579	CALL	DUTC	CR/LF	01 00579
002401 001000 A 002402 000537 A	530	JMP	TATT	EXIT TO KEYBOARD CONTROL PROGRAM	01 00580
002403 002415 0000000 A 002416 052513 A 002417 062514 A 002420 072515 A 002421 042557 A 002422 002000 A 002423 002551 A	581 TRBF 582 DET 583 584 585 586 587	BSS ENTR STA STB STX INR CALL	10 DETS DETS+1 DETS+2 PRW2 TTYC,0201	OUTPUT ERROR TABLE SAVE REG A B X PRINT ENABLE	01 00581 01 00582 01 00583 01 00584 01 00586 01 00586
002424 000201 A 002425 006010 A	588	LDAI	(TBER)	JMP IF	01 00588
002426 003330 A 002427 142561 A 002430 001010 A	589 590	SUB Jaz	PRW4 DET5	NO ERRS	01 00589 01 02590
002431 002501 A 002432 001200 A	591	J222	DET2-2		01 0 1
002433 002440 A	592	LDXI	HDG8	* YES	01 00592
002435 002105 A 002436 002000 A 002437 003243 A	593	CALL	מדטם	* PRINT	01 00593
002437 003243 A 002440 006030 A 002441 003330 A	594	LDXI	(TBER)		01 00594
002442 001100 A 002443 002447 A	595 DET2	JSS1	DET3	SSI BYPASS ERR HLT	01 00595
002444 015000 A 002445 025001 A	596 597	LDA LDB	0 = 1 1 = 1	A = DATA IN ERROR	01 00596 01 00597
002446 000777 A 002447 001200 A 002450 002467 A	598 599 DET3	JSS 2	0777 DET4	HLT TO DISPLAY ERR SS2 BYPASS ERR PRINTOUT	01 00598 01 00599
002451 002000 A 002452 003210 A	600	CALL	DUTC	CR/LF	01 00600
002453 015000 A 002454 002000 A 002455 003217 A	601 602	LDA CAL L	0 , 1 DUTE		01 00601 01 00602
002456 005042 A 002457 006010 A 002460 120240 A	603 604	TXB LDAI	0120 240	PRINT 2 SPACES SAVE X PRINT	01 00603 01 00604
002461 002000 A 002462 003175 A	605	CALL	DUTB		01 00605
002463 005024 A 002464 015001 A 002465 002000 A	606 607 608	TBX LDA CALL	1,1 DUTE	RETURN X	01 00606 01 00607 01 00608
002466 003217 A 002467 005144 A	609 DET4	IXR		CONTINUE	01 00609
002470 005144 A 002471 005041 A	610 611	IXR TXA			01 00610 01 00611
002472 142561 A 002473 001400 A	612 613	JSS 3	PRW4 (DET)*	SS3 EXIT	01 00612 01 00613
002474 102415 A 002475 001010 A	614	JAZ	DET5	DONE	01 00614
002476 002501 A	615	JMP	ОЕТЕ		01 00615
002500 002442 A	616 DE T5	LDAI	(TBER)	RESET TBL PTR	01 00616
002502 003330 A 002503 052561 A	617	STA	PRU4		01 00617
					7 (a) (b) (b) (b)

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002504 012513 A 002505 022514 A 002506 032515 A 002507 042415 A 02510 042415 A 02511 001000 A 002512 102415 A	618 619 620 621 622 623	LDA LDB LDX INR INR JMP#	DETS DETS+1 DETS+2 DET DET DET	RESTORE REG A B X SET RETURN		01 00618 01 00619 01 00620 01 00621 01 00622 01 00623
002512 102413 H 002513 000000 A 002517 012644 A 002520 006110 A 002521 102500 A	624 DETS 625 TTBC 626 627	BSS ENTR LDA DRAI	3 \$TTY 0102500	SAVE REGS CLEAR TTY RD BFR * *		01 00624 01 00625 01 00626 01 00627
002522 052523 A 002523 102500 A 002524 001000 A	628 629 630	STA CIA JMP#	*+1 0 TTBC	* CLEAR BFR * RETURN		01 00628 01 00629 01 00630
002525 102516 A 002526 052554 A 002527 072555 A 002530 032551 A 002531 015000 A 002532 002000 A	631 TT Y1 632 633 634 635	STA STX LDX LDA CALL	TTYC+3 TTYC+4 TTYC 0 , 1 DUTA	SAVE A SAVE X A=CONTROL CHARACTER OUTPUT CHARACTER		01 00631 01 00632 01 00633 01 00634 01 00635
002533 002613 A 002534 005004 A 002535 002000 A	636 637	TZX CALL	TDLY	TIME DELAY		01 00636 01 00637
002536 003304 A 002537 002000 A 002540 003304 A	638	CALL	TDLY			01 00638
002541 002000 A 002542 003304 A	639	CALL	TDLY			01 00639
002543 002000 A 002544 003304 A 002545 042551 A	640 641	CALL Inr	TDLY	SET RETURN		01 00640 01 00641
002546 012554 A 002547 032555 A 002550 001000 A 002551 000000 A	642 643 644	LDA LDX JMP	TTYC+3 TTYC+4 0	RESTORE A RESTORE X RETURN		01 00642 01 00643 01 00644
002551 002552 001000 A	645 TTYC 646	JMP BES	0 TTY1	ENTRY LOOP		01 00645 01 00646
002553 002526 A 002554 002557 002560 002560 002562 002562 002563 002564	647 648 PRW1 649 PRW2 650 PRW3 651 PRW4 652 PRW5 653 PRW6 655 *	B 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1 1 1 1 1 1 1 2	STORAGE FOR A + X ACT #CYC #ERR TBER PTR #PUNCH DN/OFF OR RDROF # RDR ON ERRS STORAGE FOR A + X	F ERRS	01 00647 01 00648 01 00649 01 00650 01 00651 01 00652 01 00653 01 00655
0.3566 013644 0	656 * 657 *			ROM TTY TO A REGISTER		01 00656 01 00657
02566 012644 A 002567 006110 A 002570 101200 A	658 IN A1 659	LDA ORAI	\$TTY 0101200	ADJUST TIY DA		01 00658 01 00659
002571 052575 A 002572 006120 A 002573 001300 A	660 661	STA ADDI	*+4 001300			01 00660 01 00661
002574 052604 A 002575 101000 A	6 62 663	STA SEN	*+8 0:*+7	READ REGISTER READY		01 00662 01 00663
002576 002604 A 002577 005011 A 002600 001400 A	664 665	MERG JSS3*	0 1 1 I NPA	NOP TERMINATE EXIT		01 00664 01 00665
002602 001000 A 002603 002575 A	666	JMP	*-5			01 00666
002604 102500 A 002605 042610 A 002606 042610 A 002607 001000 A	667 668 669 670	CIA INR INR JMP*	O INPA INPA O	INPUT CHARACTER		01 00667 01 00668 01 00669 01 00670
002610 100000 A 002610 002611 001000 A	671 INPA 672	BES JMP	0 INA1			01 00671 01 00672
002612 002566 A	673 * 674 * DUT	PUT ONF	CHARACTER FROM	A REG TO TTY		01 00673 01 00674
002613 000000 A	675 * 676 DUTA	ENTR	0 1			01 00675 01 00676
002614 073312 A 002615 005014 A 002616 012644 A 002617 006110 A	677 678 679 680	STX TAX LDA DRAI	T\$01 \$TTY 0101 10 0	ADJUST TTY DA		01 00677 01 00678 01 00679 01 00680
002620 101100 A 002621 052630 A 002622 006120 A	681 682	STA ADDI	*+7 0020 00			01 00681 01 00682
002623 002000 A 002624 052640 A 002625 005041 A	683 684	STA TXA	OUT1			01 00683 01 00684
002626 006030 A	685	LDXI	3276 7	TIME-OUT CONSTANT	E 1	01 00684
002630 101000 A 002631 002640 A	686	SEN	0 ; DUT1	WRITE REGISTER READY		01 00686
002632 002000 A 002633 003301 A 002634 005011 A	687 688	CALL MERG	TOUT 011			01 00687 01 00688
02635 000115 A 02636 001000 A	689 690	HLT JMP	77 *-6			01 00689 01 00690

		4	1			
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002637 002630 A 002640 103100 A 002641 033312 A 002642 001000 A	691 DUT1 692 693	OAR LDX JMP*	0 TS01 DUTA	RESTORE X	0.1	00691 00692 00693
002643 102613 A 002644 000001 A	694 \$TTY	DATA	0 1			00694
	695 * 696 * 697 *	INPUT O	NE CHARACTER +	PRINT FROM TTY TO A REGISTER	01 01 01	0.0695
002645 002000 A 002646 002610 A	698 ÎN B 1	CALL	INPA	INPUT DNE CHARACTER	0 1	00698
002647 001000 A 002650 102656 A	699	JMP*	INPB	TERMINATE EXIT	0 1	00699
002651 002000 A 002652 002613 A	700	CALL	DUTA	DUTPUT DNE CHARACTER	0 1	00700
002653 042656 A 002654 042656 A 002655 001000 A 002656 100000 A	701 702 703	INR INR JMP*	INPB INPB 0	EXIT	0 1	00701 00702 00703
002656 002657 001000 A 002660 002645 A	704 INPB 705	BES JMP	0 INB1		0 1	00704 00705
	706 * 707 * 708 *	INPUT ON	E CHARACTER (É	DITED>		00706 00707
002661 002000 A 002662 002656 A	708 * 709 IN C3	CALL	INPB		01	00708 00709
002663 001000 A 002664 102710 A	710	JMP*	INPC	TERMINATE EXIT	0 1	00710
002665 006130 A 002666 000334 A	711	ERAI	• 5 •	BACKSLASH	0 1	00711
002667 001010 A 002670 002705 A	712	JAZ	INC2	ABORT INPUT EXIT	0 1	00712
002671 006130 A 002672 000334 A	713	ERAI		RESTORE A	0 1	00713
002673 006130 A	714	ERAI	0337	BACKARROW		00714
002675 001010 A 002676 002703 A 002677 006130 A	715 716	JAZ ERAI	INC1 0337	DELETE ONE CHARACTER EXIT RESTORE A	01	00715
002700 000337 A 002701 042710 A	717	INR	INPC	KESTUKE A		
002702 042710 A 002703 042710 A	718 719 INC1	INR INR	INPC INPC		0.1	00718
002704 042710 A 002705 042710 A	720 721 INC2	INR INR	IMPC IMPC		0.1	00720 00721
002706 042710 A	722 723	NR JMP#	INPC 0	EXIT		00722 00723
002710 100000 A 002710 002711 001000 A 002712 002661 A	724 INPC 725	BES JMP	INC3			00724
		MPUT DNE	ALPHA CHARACTE	R FROM TTY KEYBOARD TO A REG	0 1 0 1	0 6 7
002713 001000 A	728 * 729	JMP	IMPD+1	GET CORRECT INPUT		00728 00729
002714 002747 A 002715 002000 A 002716 002710 A	730 IN D 4	CALL	INPC	INPUT ONE CHAR	0 1	00730
002717 001000 A 002720 102746 A	731	JMb*	INPD	TERMINATE EXIT	0 1	00731
002721 001000 A 002722 002743 A	732	JMP	IMDS	ABORT INPUT EXIT	0 1	00732
002723 001000 A 002724 002741 A	733	JMP	IND1	DELETE PREVIOS CHARACTER EXIT	0 1	00733
002725 006140 A	734	SUBI	0301	CHAR A		00734
002727 001004 A	735	JAN	INDS	INVALID INPUT		00735
002731 006140 A 002732 000032 A 002733 001002 A	736 737	SUBI Jap	032 IND3	CHAR Z INVALID IMPUT		00736
002734 002751 A 002735 006120 A	738	ADDI	0333	RESTORE A		00738
002736 000333 A 002737 042746 A	739	INR	INPD	NORMAL EXIT	0 1	00739
002740 042746 A 002741 042746 A	740 741 I ndi	INR	INPD INPD	DELETE PREVIOS CHARACTER EXIT	0.1	00740 00741
002742 042746 A 002743 042746 A	742 743 IND 2	INR INR	INPD INPD	ABORT INPUT EXIT	0 1	00742
002744 042746 A 002745 001000 A 002746 100000 A	744 745	INR JMP*	INPD 0	EXIT		00744
002746 002747 001000 A 002750 002715 A	746 INPD 747	BES JMP	0 I N D 4			00746 00747
002751 002000 A 002752 003052 A	748 IND3	CALL	питс	INVALID INPUTPRINT MESSAGE		00748
002753 001000 A 002754 002715 A	749	JMP	IND4			00749
	750 *				0.1	00750

CALL

750 *
751 *
752 *
753 *
754 INE3

002755 002000 A

INPD

INPUT THO LETTER CHARACTERS FROM TTY

INPUT ALPHA CHAR

01 00750 01 00751 01 00752 01 00753 01 00754

				MAIN	ATR	IN III			TYTEST		PAC	GE 15
	002756	002746		55		#9ML	INPE		TERMINATE EXIT		0 1	00755
	002760 002761	103007	Α	56		JMP	INES		ABORT INPUT EXIT			00756
	2763	001000	A A 7	57		JMP	INEI		DELETE PREVIOS CHARACTER EXIT		0 1	00757
	002765	004250		58		LRLA	8					00758
		002000	A Z	59 60		STA Call	TS02 Inpd		INPUT ALPHA CHAR			00759 00760
	002770 002771 002772	001000	A A 7 A	61		JMP*	INPE		TERMINATE EXIT		0.1	00761
	002773	001000		62		JMP	INES		ABORT INPUT EXIT		0 1	00762
	002775	001000		63		JMP	INE1		BELETE PREVIOS CHARACTER EXIT		0 1	00763
	003000	043007	A 7	64 65		ORA Inr	TS02 Inpe		NORMAL EXIT		0.1	00764 00765
	003005	043007	A 7	66 67 IN	1E1	INR	INPE INPE		BELETE PREVIOS CHARACTER EXIT			00766 00767
	003003	043007	A 7		4E2	INR	INPE Inpe		ABORT INPUT EXIT		0 1	00768
	003005 003006 003007	001000	A 7	70 71		IMR Jmp*	INPE 0		EXIT		0 1 0 1	00770 00771
	003007 003010	001000	7 A 7	72 I1 73	4PE	BES JMP	INE3 0					00772 00773
			7 7	74 * 75 *		INPUT PE	RIOD, COMMA	FOR	MESSAGE TERMINATOR			00774 00775
		002000	a z	76 * 77 IN	4F5	CALL	INPC		INPUT ONE CHARACTER			00776 00777
		001000		78		#9ML	INPF		TERMINATE EXIT		0 1	00778
	003016	001000	A A Z A	79		JMP	INFE		ABORT INPUT EXIT		0 1	00779
	003020	001000		80		JMP	INF1		DELETE PREVIOS CHARACTER EXIT		0 1	00780
	003022	006140		81		SUBI	0254		COMMA		0 1	00781
	003024 003025	003040	А	82		JAZ	INF3		COMMA EXIT			00782
	003027	200000	A	83		SUBI	.02		PERIOD			00783
	003030	003036	А	84		JAZ	INF4		PERIOD EXIT			00784 00785
		003052	A	85 86		CALL Jmp	OUTG INF5		PRINT INVALID MESSAGE GET CORRECT INPUT			00786
	003035	003012	A	87 II	NF4	INR	INPF		NORMAL EXIT			00787
	003037	043047	A 7	88 89 In		INR INR	INPF INPF		COMMA EXIT			00788 00789
	003041		A 7 A 7	90 91 It	NF 1	INR INR	INPF INPF		DELETE PREVIOS CHARACTER EXIT		0°1 0°1	00790 00791
	003044	043047	A 7		NFE	INR INR	INPF INPF		ABORT INPUT EXIT		01	00792 00793
	003045	001000	A 7	94 95		IMR JMP¥	INPF O		EXIT		0 1	00794 00795
		001000	A 7	96 II 97	4PF	BES JMP	u INF5					00796 00797
			7	98 * 99 *		INVALID	INPUTPRI	NT MES	SSASE			00798 00799
		000000	A 8	00 * 01 DU 02	JTG	ENTR LDXI	0 MSG5		INVALID MESSAGE		0.1	00800 00801 00802
	003055	003321 002000	A 8	0.3		CALL	מדטם		OUTPUT MESSAGE		0 1	00803
	003057	003243	A 8	0 4		JMP#	DUTG				0 1	00804
	003060	103052	8	05 *		THOUT OF	TAL NUMBER	EDUM	TTY KEYBOARD			00805 00806
			88	07 * 08 * 09 *		ASSEMBLE DNLY DCT		NUMBE	ER IN A REG	,	0 1 0 1 0 1	00807 00808 00809
	003062	005001 053313	A 8	10 IN	N G 7	TZA STA	TS02		TEMP STORAGE FOR OCTAL NUMBER		0.1	00810 00811 00812
	003064	0 5 3314 0 5 3315 063320	A 8	12 13 14		STA STA STB	TS03 TS04 TS07		TEMP STORAGE FOR OCTAL NUMBER TEMP STORAGE FOR DIGIT COUNTER		0.1	00812 00813 00814
		005002	A 8	15 16 It	NG5	TZB CALL	INPC		INPUT ONE CHARACTER		0.1	00815
	003070 003071	002710 001000	A A 8	17		JMP*	INPG		TERMINATE EXIT			00817
	003072 003073	103143	A A 8	18		JMP	ING2		ABORT INPUT EXIT		0 1	00818
_	003075	003136 001000 003163	A 8	19		JMP	ING1		DELETE PREVIOS CHARACTER EXIT		0 1	00819
		053316		20.		STA	TS05		SAVE INPUT		0 1	00820

PAGE 16	MAINTAIN	III		TYTEST			
003100 006140 A 003101 000260 A	821	SUBI	0260			0 1	00821
003102 001004 A	822	JAN	INGS	INVALID IF NOT OCTAL NUMBER		0 1	25800
-003104 006140 A	823	ZABI	010			0.1	00823
003106 001002 A	824	JAP	ING6	INVALIB IF NOT OCTAL NUMBER		0 1	0.004
003107 003146 A	825	ADDI	010	RESTORE DIGIT		0.1	00025
003111 000010 A 003112 113313 A 003113 053314 A 003114 004443 A 003115 001020 A	826 827 828 829	ORA STA LLRL JBZ	TS02 TS03 3 *+4			0 1 0 1	00826 00827 00828 00829
003116 003121 A	830	JMP	ING8			0-1	00830
003120 003157 A 003121 053313 A 003122 043315 A 003123 013315 A 003124 006140 A	831 832 833 834	STA INR LDA SUBI	TS02 TS04 TS04 7	ADVANCE DIGIT COUNTER		0 i 0 i	00831 00832 00833 00834
003125 000007 A	835	JAP	ING8	TOO MANY DIGITS. START INPUT OVER		0:1:	00835
003127 003157 A	836	JMP	ING5	GET NEXT DIGIT		0 1	00836
003131 003067 A 003132 043143 A 003133 043143 A 003134 043143 A 003135 043143 A	837 IN G3 838 83 9 IN G4 840	INR INR INR INR	INPG INPG INPG INPG	NORMAL EXIT		0 1 0 1	0.0837 0.0838 0.0839 0.0840
003136 043143 A 003137 043143 A	841 I ng2 842	INR INR	INPG INPG	ABORT INPUT EXIT			00841 00842
003140 023320 A 003141 013314 A 003142 001000 A 003143 100000 A	843 844 845	LDB LDA JMP*	TS07 TS03 0	GET ASSEMBLED OCTAL NUMBER Exit		0.1	00843 00844 00845
003143 003144 001000 A	846 INPG 847	BES JMP	0 ING7				00846 00847
003145 003061 A 003146 013316 A 003147 006140 A 003150 000254 A	848 I ng 6 849	LDA Subi	TS05 0254	GET LAST INPUT IS IT A COMMA			00848 00849
003151 001010 A 003152 003134 A	850	JAZ	ING4	YES		0 1	00850
003153 006140 A 003154 000002 A	851	SUBI	0.5	IS IT A PERIOD		0 1	00851
003155 001010 A 003156 003132 A	852	JAZ	ING3	YES	*.	0 1	00852
003157 002000 A 003160 003052 A	853 I ng8	CALL	DUTG	PRINT INVALID MESSAGE		0.1	00853
003161 001000 A- 003162 003061 A	854	JMP	ING7	START OVER WITH OCTAL INPUT		0 1	00854
003163 013314 A 003164 004343 A 003165 053314 A 003165 053313 A 003170 013315 A 003171 005311 A 003172 053315 A 003172 053315 A 003173 001000 A 003174 003067 A	855 ** 856 ING1 857 858 859 860 861 862 863	LDAA LSRA LRLA STA LDAR STA JMP	TS03 3 TS03 3 TS02 TS04 TS04	REDUCE DIGIT COUNT		0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 956 0 0 857 0 0 858 0 0 859 0 0 861 0 0 862 0 0 864
0031/ 4 00300/ N			CHARACTERS F	ROM A REG TO TTY (HIGH DRDER FIRST) N A REG		0 1 0 1	00865 00866 00867
003175 000000 A -003176 063317 A	869 DUTB 870	ENTR STB	0 TS06	SAVE B		0.1	00868 00869 00870
003177 004550 A 003200 002000 A	871 872	LLSR CALL	S DUTA	DUTPUT FIRST CHAR		0.1	00871 00871 00872
003201 002613 A 003202 004450 A	873	LLRL	8				00873
003203 002000 A 003204 002613 A	874	CALL	OUTA	OUTPUT SECOND CHAR			00874
003205 023317 A 003206 001000 A 003207 103175 A	875 876	LDB JMP*	TS06 OUTB	RESTORE B RETURN		0 1	00875
	877 * 878 * DU 879 *	TPUT CAR	RIAGE RETURN	AND LINE FEED TO TTY		0.1	00877
003210 000000 A 003211 006010 A 003212 106612 A	880 DUTC 881	ENTR LDAI	0106612	CR AND LF		0.1	00879 00880 00881
003213 002000 A 003214 003175 A	882	CALL	OUTB	DUTPUT 2 CHAR			00882
003215 001000 A 003216 103210 A	883	JMP*	συτο	RETURN			00883
		TPUT OCT	AL WORD AND A	SPACE TO TTY		0.1	00884 00885
003217 000000 A 003220 005002 A 003221 004557 A 003222 005122 A	886 * 887 DUTE 888 889 890	ENTR TZB LLSR IBR	0 15			0 1 0 1 0 1	00886 00887 00888 00889 00890

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		. M	AINTAIN	III		TYTEST			PAG	SE 17
	23 006110		DUT2	ORAI	• 0 • • • • •	MAKE DIGIT			0 1	00891
0032	24 000260 25 002000 26 002613	A 892		CALL	DUTA	DUTPUT ONE DIGIT			0 1	00892
35:	27 005001	A 893 A 894		TZA LLRL	3					00893 00894
0032	31 001020	A 895		JBZ	*+4	OCTAL OUTPUT COMPLETE				00895
0032	34 003223			JMP	DUT2					00896
0032		A		LDAI	0240	ASCII BLANK CODE				00897
0032	37 002000 40 002613 41 001000	A		CALL JMP*	DUTA	DUTPUT SPACE				00899
	42 103217			JHF	DUTE	RETURN				00900
		901 902	* DU	TPUT ME	SSAGE TO TTY (X	REG CONTAINS ADDRESS OF	MESSAGE)		0.1	00901
0035		A 904		ENTR LDA	0 1				0 1	00903
0032	45 001010 46 103243			JAZ*	מדטם					00905
0032	47 002000 50 003175 51 005144	A		CALL IXR	BUTB					00906
0032		A 908		JMP	UUT D + 1					00908
		909 910	* a u	TPUT OC	TAL MEMORY ADDR	ESS TO TTY PRINTER			0 1	00909 00910
	54 000000		DUTF	ENTR	0				0.1	
0032	36 006010	A 913		STA LDA I	1205	SAVE WORD Paren space				00913 00914
0032	57 124240 50 002000 51 003175	A 915		CALL	BALNE	PRINT CHAR			0 1	00915
0032	52 013313 53 002000	A 916 A 917		LDA Jmp m	TS02 DUTE	OUTPUT OCTAL WORD				00916 00917
0032	64 003217 65 006010	A A 918		LDAI		RIGHT PARENTHESIS			0 1	00918
0032	56 000251 57 002000	A. 919		CALL	BUTA	PRINT CHAR			0 1	00919
0032	70 002613 71 001000 72 103254	A 920		JMP*	DUTF				0 1	00920
0036	,E 109694	921 922		TIME-D	UT SUBROUTINE					00921
1 32	73.005344	923		DXR					0.1	00923
0032	74 001040 75 103301	A 925		JXZ*	TOUT	TIME-DUT RETURN				00925
0035	76 043301 77 043301			INR INR	TOUT	SET UP FOR NORMAL EXIT			0.1	00926
	00 001000	A	тоит	JMP BES	0					00928
8033	02 001000 03 003273	A 930		ĴMP	TOU1					00930
		931 932	* TIM	E DELAY	SUBROUTINE			*	0.1	00931
	04 0 0 00000		TDLY	ENIK	U .				0.1	00933 00934 00935
0033	05 003344 06 001040 07 103304	A 936		DXR JXZ*	TDLY	RETURN				00936
0033	10 001000 11 003305	A 937		JMP.	*-3				0.1	00937
		938 939	* BA	TA TABL	E				0.1	00535
	12 000000		T\$01	DATA	0	TEMPORARY STORAGE			0.1	00940
0033	14 000000 14 000000 15 000000	A 943	TS02 TS03 TS04	DATA DATA DATA	0 0 0	TEMPORARY STORAGE TEMPORARY STORAGE TEMPORARY STORAGE			0 1	00942 00943 00944
0033	16 000000	A 945	T\$05 T\$06	DATA DATA	0 0	TEMPORARY STORAGE TEMPORARY STORAGE			0.1	00945
0033	20 000000	948		DATA	0	TEMPORARY STORAGE			0.1	00947 00948
		949 950	*	SSAGE T		405540			0.1	00949
0033	21 120240 22 144716 23 1 5 3301	A	MSG5	DATA	' INVALID',0	108812, 0			0.1	00951
0033	24 146311 25 142240	A								
0033 0033	26 106612 27 000000	A A								
0033	000500		TBER	BSS END	1 TKCP	ERROR TABLE				00952 00953
	Y Nam es Rnal Name: nis	3								
026	063 44 A \$TTY 75 A HDG1		15 A CR 16 A HD			02000 A EOTX 00743 A HDG4				
			· · · · · · · · · · · · · · · · · · ·							

PAGE 1	8	MAI	NTA	IN III			*	TY	TEST		
LITERA		00023016471243336132405774411132336104104453336105774411145335406057744111122245331605774411112224533160577441111222453316057764134741353605774411112224533160577612114212224533160576121142122245331605761211421222453316057612114212224533160576121142122245331605761211421222453316057612114212224533160576121142122245331605761211421222453316057612114212224533160576121142122245331605761211421222453316057612114212224533160577744111122245331605774411112224533160577441111222453316057744111122245331605774411112224533160577441111222453316057744111122245331605774411112224533160577441111122245331605774411112224533160574411111111111111111111111111111111111		D OBJECT HITTITITTTTTTTTTTTTTTTTTTTTTTTTTTTTT	000230314046666060600003327714600000000000000000000000000000000000		71223268F 3CAE 48D440DRD5T244315FT44R1 DCDEFGGPP TITT 08CNW2NEHICEWFT08ST HINNNH FEDUUDPRRRBSTBHKKKPPRRBSST TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	002033300330003111200100111200000000000	177770107134412557553400012322253355	233437CGG54GBF15915BR126611TT26615CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	
POINTE 694 298 217	STTY CRLF CS01	96 283 211	107	508	626	ŧ	558	679			
297 156 157	HDG1 HDG2	295 87 89									
158 159 160 241	HDG3 HDG4 HDG5 HDG6	111 144 147 235	151								
467 468 658	HDG7 HDG8 INA1	303 592 672									
698 719 721	IMBI INCI INC2	705 715 712									
709 741 743	IMC3 IND1 IND2	725 733 732									
748 730 767	IND3 IND4 INE1	735 747 757	737 749 763								
769 754 791 793	INE2 INE3 INF1 INF2	756 773 780 779	762								
789 787	INF3 INF4 INF5	782 784 786	79 7								
856 841 837	INGI ING2 ING3	819 818 852									
848	ING4 ING5 ING6	850 836 822	864 824								
810 853 671	ING7 ING8 INPA	847 830 204	854 835 331	371	377	3	393	482	486	545	665
704 724	INPB INPC	668 237 710 816	669 699 7 1 7	698 701 718	702 719		'0 9 '20	721	722	730	777
746	INPD	729 760	731	739	740	7	741	742	743	744	754
772 796	INPE INPF	113 119	755 778	761 787	76 5 788		766 789	767 790	768 791	769 792	770 793
846 77	INPG IDCT	794 305 91	817	837	838		339	840	841	842	
162 163	KC KE	127 130									
951 582 595 599	MSG5 DET DET2 DET3	802 409 591 595	541 615	613	621	6	322	623			
609	DET4	599									

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			MA	NIATHI	III			Τ,	YTEST		
O	616 624 75 76 691 891	DET5 DETS DU1C DUMG DUT1 DUT2	590 583 88 88 683 896	614 584 84 90 686	585 86 148	618 152	619	620			
	676 869	DUTA	99 278 635 605	101 323 693 876	103 339 700 882	105 345 872 906	181 356 874 915	195 364 892	215 412 898	252 505 919	276 544
	880	σύτε	106 461 883	125 464	172 565	186 567	248 570	316 573	453 576	454 579	458 600
	903	מדטם	112 908	145	174	188	236	304	593	803	905
	887 912	DUTE	457 899 920	460 917	463	569	572	5 75	578	602	608
	801 299 164 319	DUTG PERIOD PR PR01	748 295 133	785	804	853					
	323 331 348 356 359 371	PR02 PR03 PR04 PR05 PR06 PR07	326 325 358 347 355 375 392	421							
	377 406 409 422	PR08 PR09 PR10 PR11	402 399 405	424							
	453 648	PRMD PRW1	332 379 501	34 0 381 530	357 395 554	365 397 561	3 72 403	378 406	394 445	410 488	418 497
	649 650	PRW2 PRW3	33 5 33 6	456 451	476 459	568 477	586 571				
	651 652 653	PRW4 PRW5 PRW6	318 337 479	443 408 551	449 462 577	481 478	589 563	612 574	617		
	165 275 283	PS PS20	136 282								
	166 167	PSTBL PT RT	274 139 142								
	565 296	RTMD STAR	487 283 286	542 283 287	546 284 287	284 287	284 288	285 288	285 289	285 289	286 289
			290 293	290 294	291 294	291 295	291	292	292	293	293
	168 98 952	STID TATT TBER	118 120 317	126 205 480	129 238 588	132 253 594	135 279 616	138 306	141 465	483	580
	201 934	TCS1 TDLY	177 637	191 638	208 639	216 640	217 936	218	219	220	
	91 113 177	TIDA TIID TKC2	* * 185								
	177 178 186	TKC3 TKC4	* 184								
	191 192 81	TKC5 TKC6 TKCP	199 * 953								
	172	TKCT	128 131	198							
	222 227 230 231	TKK1 TKK2 TKW2 TOU1	173 187 180 178 930	175 189 194 192	203 213	210	212				
	924 929 303	TOUT	514 134	687 308	925	926	927				
	426 274	TPS4 TPST TPT1	350 137 256	386 281	430	432	434	436	438	439	491
	247 252 259	TPT2 TPT3	257 250	254	264	2 66					
	245 267 482	TPTT TPU1 TROO	140 246 557	249	251						
	486 501	TR01 TR02	498 496	500	550						
	513 517	TR03 TR04 TR05	510 512 515	516 513	520						
	521 529 558	TR06 TR07	540 523	564 525							
	538 581 89	TROS TRBF TRDA	526 506 93	522 150	528	559					
	111 151 472	TRID TRSS	115 114	116	121	122	146	154			
O	472 941 942	TRTT TS01 TS02	143 677 759	692 764	811	826	831	360	913	916	

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PAGE	2.0	MAINTAI	M III		1	TYTEST		
943 944 945 947 147 625	TS03 TS04 TS05 TS06 TS07 TSSR TTBC	812 827 813 832 820 848 870 875 814 843 92 630	844 833	856 861	858 863		accompany of the second	
440 87 450 631	TTBL TTPI TTS1 TTY1	383 407 * 441 646	452	499	503 535	555	562	
645 46 6	TTYC	319 320 413 417 632 633 315 398	333 455 641 400	359 472 642 414	360 361 473 474 643 423	369 566	370 587	396 631